

Attn.:	Title: Cautions and Request on Handling of Parts Deposited with Thin Metal Films in Thin Film Deposition Systems	No.	VeQRR2_2421-00002
		Date	October 14, 2016
		CANON ANELVA CORPORATION Quality Management Div.	

Thank you for using CANON ANELVA products.

This is to notify customers using thin film deposition systems of necessity for special care when handling parts deposited with thin metal films.

Some metal films deposited on the internal jigs and shields in thin film deposition systems such as sputtering systems or evaporation systems can ignite upon surface shock, mechanical friction, etc. Especially exposed chamber surface to the atmosphere or the surface peeling thin films is in the active state, which may ignite upon the shock or friction. It is possible to occur on any metal film; especially, it is said to be very easy to occur on films of a high-melting-point metal (Ti, W, Mo, Ta, etc.), their silicide, Mg, La, Zr, Hf, Y, or mixture of platinum and another metal.

Ease or scale of ignition differs depending on film materials, deposition conditions, film surface conditions, temperature, etc.

There is a risk of personnel injury (e.g. burns) or fire in case of ignition; please follow cautions and request described in the attached sheet for handling of parts deposited with these thin metal films.

We will continually improve the product quality and reliability to ensure customer satisfaction.

Applicable system	Parts deposited with thin metal films as a result of deposition of high-melting-point metals, their silicides, Mg, La, Zr, Hf, Y, or mixture of Pt and other metals in thin film deposition systems such as sputtering systems or evaporation systems	—
Action items	Please follow cautions and request on handling of parts deposited with thin metal films.	Refer to separate sheet
Price, lead time, work time	N/A	—
Schedule	Immediately	—
Remarks	N/A	—

Feel free to contact our sales or service representatives.

<http://www.canon-anelva.co.jp/english/contacts/index.html>

■ **Precautions on handling parts deposited with metal films**



Some metal films deposited on the internal jigs and shields in thin film fabrication systems, etc., may ignite upon surface shock or mechanical friction. Especially exposed chamber surface to the atmosphere or the surface peeling thin films is in the active state, which may ignite upon the shock, friction, etc.

It is possible to occur on any metal film; especially, it is said to be very easy to occur on films of a high-melting-point metal (Ti, W, Mo, Ta, etc.), their silicide, Mg, La, Zr, Hf, Y, or mixture of catalytically active Pt and other metals.

Ease or scale of ignition differs depending on film materials, deposition conditions, film surface conditions, temperature, etc.

There is a risk of personnel injury (e.g. burns) or fire in case of ignition; be sure to follow the instructions below when replacing the shields deposited with metal films.

- Wear the protective gears (fire-safe mask and gloves) during work.
- Possibility of ignition in the vacuum cleaner if using it to take up the flaked thin films. Do NOT use the vacuum cleaner.
- Pay attention to falling or scattering the flaked thin film and do NOT place the flammable items (clean paper or alcohol) in the vicinity. Possibility of ignition or combustion.
- Put the flaked thin film into a noncombustible container and separate it from other flammable items.
- When transferring the internal jigs or shields deposited with metals, take extra care to ensure that nothing can administer shock or friction to these parts. There is a risk of causing the ignition upon shock or mechanical friction during transfer.
- Peeling thin films must be done in a place with appropriate facilities. Also, it must be done only by trained personnel.

	 WARNING
	<p>Possibility of ignition or combustion.</p> <p>Take extreme care when handling parts deposited with thin metal films.</p>